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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/520,280	01/27/2005	Takako Araki	050042	7575
23850 KRATZ, OUIN	7590 10/16/2007 VTOS & HANSON, LLP		EXAM	INER
1420 K Street,	•		NGUYEN, LINH THI	
Suite 400 WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2627	
			MAIL DATE	DELIVERY MODE
			10/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/520,280	ARAKI, TAKAKO			
		Examiner	Art Unit			
		Linh T. Nguyen	2627			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on <u>05 August 2007</u> .					
′=	This action is FINAL . 2b) ☐ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
5)□ 6)⊠ 7)□	Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o					
Applicati	ion Papers					
 9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 27 January 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notic	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I	Pate			
Pape	er No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Drawings

Figures 9-13 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

Claim 1 objected to because of the following informalities: the words "retrieved" on line 15 should be between "one" and "boundary" for clearer grammatical (i.e. "one retrieved boundary value"). Also the word "previous" should also be in front of "solely on a **previous** boundary value obtained by a previous optimizing processing." This is only suggests for better understanding of the claims. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the

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art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claim 1 has currently amended to included "and not a current power reproduction level." However, in the drawing on Figs. 3 and 5, the optimum reproduction power is store by using the current reproduction level = Pr. Plus, the specification does not specifically disclose the negative annotation "not a current power reproduction level" in claim 1.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 are rejected under 35 U.S.C. 102(b) as being unpatentable by Nanba et al (US Patent number 5796704).

In regards to claim 1, Nanba et al discloses a disk playback device (Fig. 3A-B) capable of reproducing signals (Fig. 3A, element 68) from a disk by irradiating the disk with a laser beam from an optical head (Fig. 3A element 12), the disk playback device comprising a laser drive circuit (Fig. 3A, element 64) capable of feeding a drive signal to the optical head (Fig. 3A element 64 connected to element 12 of the laser diode 22) and

adjusting a power of the laser beam irradiated (Fig. 3B, element 38) by the optical head and a control circuit for controlling operation of the laser drive circuit (Fig. 3A-B, element 38 is connected to 64 laser driving circuit), wherein the control circuit comprises reproduction power optimizing means (Fig. 3B, element 74) for repeatedly optimizing the power of the laser beam for signal reproduction (Column 7, lines 30-33), and the reproduction power optimizing means comprises: evaluation data detecting (activation control element) means for detecting evaluation data representing quality of a signal reproduction state (Fig. 4, signals E1, E2, E3, and E5, are inputted in element 78 to compare with a predetermined value, therefore, evaluating the signals for quality (Column 8 lines 1-20)); retrieving means for retrieving one boundary value (Fig. 6, point 108) of two boundary values (Fig. 6, point 112) of a reproduction power wherein the evaluation data is a prescribed value or in the vicinity of the prescribed value (Fig. 5 and Fig. 6); and optimum reproduction power calculating means (Fig. 4, element 85) for calculating an optimum reproduction power based on the one boundary value retrieved (based on ΔW the boundary value would be retrieved according to Fig. 5 and Fig. 6), wherein the retrieving means retrieves a new boundary value based on a boundary value obtained by a previous optimizing processing and not a current power reproduction level (Fig. 8, boundary value W in step S6 is used to calculate the next

In regards to claim 2, Nanba et al discloses a disk playback device according to claim 1, wherein the retrieving means retrieves a lower boundary value having a smaller

optimum value because the step is return to the S1).

value from the two boundary values (Fig. 8, S4), and the optimum reproduction power calculating means adds a predetermined value to the lower boundary value to thereby determine the optimum reproduction power (Fig. 8, S5).

In regards to claims 1/3 and 2/3, Nanba et al discloses a disk playback device, wherein the evaluation data is a frequency of occurrence of bit errors included in a reproduced signal (Fig. 10).

In regards to claims 1/4 and 2/4, Nanba et al discloses a disk playback device, wherein the disk playback device comprises temperature detecting means (Fig. 4, element 84) for detecting a temperature of the disk, and the reproduction power optimizing means optimizes the reproduction power whenever the temperature of the disk varies by a predetermined temperature (Fig. 7, S9-10).

Response to Arguments

Applicant's arguments filed 8/5/07 have been fully considered but they are not persuasive. Applicant's argue that Nanba does not "process of retrieving a new boundary value." However, Nanba discloses one boundary value (Wo) of two boundary value (Fig. 6, element 108 or 112) and optimum reproduction power calculating means for calculating an optimum reproduction power based on the one boundary value (Wo) retrieved (Fig. 8, as Wo=1 is retrieved an increment of 0.25mW is added until it reach an

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optimum power level), wherein the retrieves a new boundary value based solely on a boundary value obtained by a previous optimizing processing (as reproduction power is determined by adding 0.25 mW a new boundary (W) is obtain base on the previous boundary value of Wo=1; for example W= Wo+ 0.25= 1.25 is the new boundary). Therefore, claims 1-4 are not patentable in view of Nanba

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh T. Nguyen whose telephone number is 571-272-5513. The examiner can normally be reached on 8:30am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-4483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LN October 9, 2007

WAYNE YOUNG

SUPERVISORY PATENT EXAMINER